

HYPERNUMBERS AND OTHER EXOTIC STUFF



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<https://www.amazon.ca/Sonic-Possible-Worlds-Revised-Continuum/dp/1501367617>

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<https://www.anothermag.com/art-photography/8576/how-channa-horwitz-permeated-las-1960s-art-scene>

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Universal Script - Matthew DeBlock - <http://www.dschrift.org/> (Uscript is universal logographic language based on math and physics)

Kēlen Ceremonial Interlace Alphabet - <https://www.terjemar.net/kelen/lajathin.php>

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<https://www.amazon.com/Mateschef-sofrito-n%C3%BAmoros-formas-gourmets/dp/8434422719>

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https://en.wikipedia.org/wiki/David_Wynn_Miller#Constructed_language_and_linguistic_theories

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<https://www.amazon.com/Intention-Attention-Inattention-Neglect-NEURO-OPTOMETRY/dp/0929780094>

Lin4Neuro (neuroimaging) - https://www.nemotos.net/?page_id=29

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The End of Mental Illness: How Neuroscience Is Transforming Psychiatry - Daniel G. Amen

<https://www.amazon.com/End-Mental-Illness-Neuroscience-Transforming/dp/1496438159>

The most important lesson from 83,000 brain scans - <https://www.youtube.com/watch?v=esPRsT-lmw8>

Aproximate number system - https://en.wikipedia.org/wiki/Approximate_number_system

Numerical cognition - https://en.wikipedia.org/wiki/Numerical_cognition

Number sense in animals - https://en.wikipedia.org/wiki/Number_sense_in_animals

Together with dyscalculia, ageometresia, dysgraphia, financial illiteracy

Innumeracy - https://en.wikipedia.org/wiki/Innumeracy_%28book%29

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WikiOdour (a wiki about odor metric) - Scentroid - <https://scentroid.com/wikiodour/>

The perfume maker in Dubai Gold Souq who can create any fragrance - <https://www.youtube.com/watch?v=5WYu0FxyPw>

Scent and Chemistry The Molecular World of Odors - Günther Ohloff, Wilhelm Pickenhagen, Philip Kraft and Fanny Grau

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Detector Dogs and Scent Movement How Weather, Terrain, and Vegetation Influence Search Strategies - Tom Osterkamp

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Scholarpedia of Touch - Tony Prescott, Ehud Ahissar, Eugene Izhikevich
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(5) TRIANGLE ZONE

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<https://bernard-gibert.pagesperso-orange.fr/files/Resources/SITP.pdf>

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Barycentric Coordinates - <https://mathworld.wolfram.com/BarycentricCoordinates.html>

Green Coordinates - Yaron Lipman, David Levin and Daniel Cohen-Or https://www.wisdom.weizmann.ac.il/~yilipman/GC/gc_techrep.pdf

Harmonic Coordinates - Tony DeRose and Mark Meyer - <https://graphics.pixar.com/library/HarmonicCoordinates/paper.pdf>

The barycentric conspiracy - Fabian "ryg" Giesen - <https://fgiesen.wordpress.com/2013/02/06/the-barycentric-conspirac/>

Areal Coordinates - <https://mathworld.wolfram.com/ArealCoordinates.html>

Approach on area coordinate, volume coordinate and their usage in true 3dgis - Gang Liao, Qingyuan Li, Xu Chen and Jiarong Zheng
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<https://www.math.arizona.edu/~agillette/research/ccomOct11.pdf>

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Synergetics Coordinates - <https://mathworld.wolfram.com/SynergeticsCoordinates.html> (Clifford J. Nelson 's Wolfram Notebooks)

Buckminster Fuller Notebooks - <https://library.wolfram.com/infocenter/MathSource/600/>

Bucky Number Mandelbrot - <https://library.wolfram.com/infocenter/MathSource/428/>

Four Triangle Fractals using Bucky Numbers and Synergetics Coordinates - <https://library.wolfram.com/infocenter/MathSource/754/>

Synergetics Coordinates Applications - Clifford J. Nelson - <https://web.archive.org/web/20040613235632/http://users.adelphia.net/~cnelson9/>

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Quadrangle coordinates - https://en.wikipedia.org/wiki/Quadrangle_coordinates

Polysign Numbers - Tim Golden - <http://www.bandtechnology.com/PolySigned/index.html>

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Pohlke's theorem - https://en.wikipedia.org/wiki/Pohlke's_theorem

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The Mathematical Papers of Sir William Rowan Hamilton: Volume 4, Geometry, Analysis, Astronomy, Probability and Finite Differences, Miscellaneous - <https://www.amazon.com/Mathematical-Papers-William-Rowan-Hamilton/dp/052159216X> (Anharmonic coordinates)
Elements of Quaternions - William Rowan Hamilton - <https://archive.org/details/elementsquaterni00hamirich> (Anharmonic coordinates)

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Bohumír Bastl, Bert Jüttler, Miroslav Lávička, Josef Schicho and Zbyněk Šír - <http://www.ag.jku.at/pubs/2011bjlsz.pdf>

Lazare Carnot et la généralité en géométrie. Variations sur le théorème dit de Menelaus - Chemla, Karine

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Tripolar Coordinates (straight Line and Circle): Concurrency of Lines Joining Vortices of a Triangle to Opposite Vertices of Triangles on

Its Sides - A. G. Burgess - <https://era.ed.ac.uk/handle/1842/29477>

Gamma Trigonometry : Applications of Extended Sine and Cosine Functions to Engineering - Luis Teia

<https://www.tjoe.org/pub/6kjmqwir/release/2>

Triangular root - https://en.wikipedia.org/wiki/Triangular_number#Triangular_roots_and_tests_for_triangular_numbers

Hedronometry (Dimensionally enhanced Trigonometry) - Blue the hedronometer - <http://daylateanddollarshort.com/mathdocs/>

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A hedronometric theorem of Menger - <https://vdocuments.site/a-hedronometric-theorem-of-menger-day-late-d-a-hedronometric-theorem.html?page=1>

Heron-like Results for Tetrahedral Volume - <https://vdocuments.mx/heron-like-hedronometric-results-for-d-howard-eves-2-notes-the-theorem.html?page=1>

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Pseudofaces of tetrahedra - <https://paperzz.com/doc/8457999/pseudofaces-of-tetrahedra-the-law-of-cosines-for>

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La géométrie des tétraèdres - Philippe Tilleuil

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Rhombic dodecahedral honeycomb - https://en.wikipedia.org/wiki/Rhombic_dodecahedral_honeycomb

Maxicode - <https://en.wikipedia.org/wiki/MaxiCode>

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Cubic Pythagoras – Luis Teia (pythagoras with cubes instead of squares)

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Fermat's Theorem – a Geometrical View

https://www.researchgate.net/profile/Luis-Teia/publication/312607399_Fermat's_Theorem_-_a_Geometrical_View/links/58863f6d92851c21ff4d5825/Fermats-Theorem-a-Geometrical-View.pdf

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Pythagoras theorem variation - Claudi Alsina - <http://claudialsina.com/wp-content/uploads/2016/10/newpythlikethms.pdf>
 Extended Pythagoras Theorem Using Hexagons - Luis Teia
https://www.researchgate.net/publication/356441337_Extended_Pythagoras_Theorem_Using_Hexagons
 Extended Pythagoras Theorem using Triangles, and its Applications to Engineering - Luis Teia
https://www.researchgate.net/publication/357896374_Extended_Pythagoras_Theorem_using_Triangles_and_its_Applications_to_Engineering
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https://www.principlesofnature.com/number_geometry_connections/new_angles_on_triangles_and_theorems_the_eutrigon_theorem.htm
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 Duocode, a parallel of the unicode standard for hexagonal typesetting - Alexander Egorov

Hex Grid Geometry for Game Developers - Herman Tulleken - <http://gamelogic.co.za/downloads/HexMath2.pdf>
 'Tetrahedral' coordinates in space (generalization of hexagonal coordinates)
<https://math.stackexchange.com/questions/1861635/tetrahedral-coordinates-in-space-generalization-of-hexagonal-coordinates>
 Topology Optimization with Tetra-kai-decahedra and Spheroidal Masks - Nikhil Singh and Anupam Saxena
https://www.researchgate.net/publication/358345870_Topology_Optimization_with_Tetra-kai-decahedra_and_Spheroidal_Masks

An Argument For Dozenalism - <https://hexnet.org/content/argument-dozenalism>
<https://hexagon.link/> && <https://hexagontruth.github.io/hexular/> && <https://twitter.com/hexagonalnews>
 Hexagonal Awareness - <https://www.youtube.com/channel/UCf-ml0bmw7OJZHZCIB0cx3g/videos>

Polynumbers, Norms, Metrics, and Polyangles - R R Aidagulov and M V Shamolin
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Taxicab Angles and Trigonometry - Kevin Thompson and Tevian Dray - <https://arxiv.org/pdf/1101.2917.pdf>

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<https://www.amazon.com/Divine-Proportions-Rational-Trigonometry-Universal/dp/097574920X>
 Wildberger 's channel - <https://www.youtube.com/user/njwildberger>
 Rational trigonometry - https://handwiki.org/wiki/Rational_trigonometry

Pascal simplex - https://en.wikipedia.org/wiki/Pascal's_simplex

Using Chinese Dumbass Notation to Find Algebraic Identities Daniel - Liu Daniel Liu
https://www.academia.edu/11576181/Using_Chinese_Dumbass_Notation_to_Find_Algebraic_Identities

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<http://www.wseas.us/e-library/transactions/mathematics/2012/53-882.pdf>

Plimpton 322 is Babylonian exact sexagesimal trigonometry - Daniel Francis Mansfield and Norman Wildberger
https://www.researchgate.net/publication/319286288_Plimpton_322_is_Babylonian_exact_sexagesimal_trigonometry
 Old Babylonian mathematics and Plimpton 322: A new understanding of the OB tablet Plimpton 322
<https://www.youtube.com/watch?v=L24GzTaOll0>

How Does One Cut a Triangle? - Alexander Soifer - <https://www.amazon.com/How-Does-One-Cut-Triangle/dp/0387746501>

(6) SOFTWARE ZONE

DATA STRUCTURES*

Treesheet (tree-like spreadsheet) - <http://strlen.com/treesheets/>
 Blockchain (demo) - <https://andersbrownworth.com/blockchain/>
 Heimer (mind map) - <https://github.com/juzzlin/Heimer>
 DAS-UI <https://das-ui.firebaseio.com/> && <https://szymonkaliski.com/writing/2017-09-08-building-das-ui/>
 Enso (diagrammatic coding) - <https://enso.org/language>
 Orca (procedural sequencers) - <https://github.com/Hundredrabbits/Orca>
 Taichi (spatially sparse multi-level data structures) - <https://github.com/taichi-dev/taichi>
 Rasdaman (datacube and arrays) - <http://www.rasdaman.org/wiki>
 Categorical Data (data-related tasks using category theory) - <https://www.categoricaldata.net/>
 Egison (efficient non-linear pattern matching with backtracking for non-free data type) - <https://www.egison.org/>
 Eve (uniform data-processing) - <http://witheve.com/>
 Habit (type-level programming) - <https://www.habit-lang.org/>

Fluidinfo (columnar shareable data) - <https://github.com/fluidinfo> && <https://en.wikipedia.org/wiki/Fluidinfo>
MentDB (world wide Data) - https://www.mentdb.org/mentdb_weak.html
Obsidian (knowledge base on top of your local folder of plain text files) - <https://obsidian.md/>
LMQL (query language for large language models) - <https://github.com/eth-sri/lmql>
Koka (effect typing, effect handlers, Perceus memory management) - <https://koka-lang.github.io/koka/doc/book.html#why>
NewLang (computing tensors and rational numbers) - <https://github.com/rsashka/newlang>
Odin (data-oriented programming)- <https://odin-lang.org/>
Cairo (provable programs and nondeterministic jumps) - https://www.cairo-lang.org/docs/how_cairo_works/cairo_intro.html
Primecoin - <https://en.wikipedia.org/wiki/Primecoin> && <https://primecoin.io/>

STRUCTS* WITH META

Bedrock (meta-distro) <https://bedrocklinux.org/>
Funtoo (meta-distro) - <https://www.funtoo.org/Welcome>
T2 System Development Environment (meta-distro) - <https://t2sde.org/index.cgi/>
DL Linux (meta-meta-distro) - <https://web.archive.org/web/20181221164035/https://www.sudosatirical.com/articles/dl-linux-0-0-1-released/>
Black (reflective) - <http://pllab.is.ocha.ac.jp/~asai/Black/>
Terra (meta-programming) - <http://terralang.org/>
MetaL (meta-language) - <https://www.meta-language.net/faq.html#what>
Rinci (metadata specifications) - <https://metacpan.org/pod/Rinci#ABSTRACT>
Circle (meta-programming) - <https://www.circle-lang.org/>
Hackett (meta-programming) - <https://lexi-lambda.github.io/hackett/>
Elena (polymorphic code) - <https://github.com/ELENA-LANG/elena-lang/wiki/ELENA-Programming-Manual#overview>
Beluga (mechanizing meta-theory) - <https://www.cs.mcgill.ca/~complogic/beluga/index.html>
Hazel (incomplete programs) - <https://hazel.org/>
Autohotkey (gui and scripting automation for windows) - <https://www.autohotkey.com/>
Rosie Pattern (beyond regex) - <https://rosie-lang.org/about/>
Antipurity (self-aware interpreter) - <https://github.com/Antipurity/conceptual>
Multicompiler (defensive compiler) - <https://immunant.com/blog/2018/09/multicompiler/>
Avail (articulate programming) - <https://www.availlang.org/about-avail/introduction/index.html>
Push (evolutionary computing) - <https://faculty.hampshire.edu/lspector/push.html>
Wyvern (built-in skill for large-scale design) - <https://wyvernlang.github.io/>
Gen (probabilistic) - <https://probcomp.github.io/Gen/>
Pyro (probabilistic) - <https://pyro.ai/>
Rascal (meta-programming) - <https://www.rascal-mpl.org/>
Pharo (software as objects, immersive) - <https://pharo.org/features>
DarklangGPT (Deployless cloud backends with AI-generated code) - <https://darklang.com/>
LangChain (simplify APP construction with LLMs) - <https://langchain.com/>

SOUND*

Gwion - <https://gwion.github.io/Gwion/>
Kronos vesaronilo - <http://kronos.vesanorilo.com/>
Supercollider - <https://supercollider.github.io/>
Faust - <https://faust.grame.fr/>
Chuck - <http://chuck.cs.princeton.edu/>

NETWORKING*

Live Raizo (network simulation) - <https://sourceforge.net/projects/live-raizo/>
P4 (implement specific network behaviours) - <https://p4.org/>
Helena (browsing automation) - <https://helena-lang.org/>
Volunia (rpg-like browser) <http://www.volunia.com/>
Gather (rpg-like meetings) - <https://www.gather.town/>
Lynx (textual browser) - [https://en.wikipedia.org/wiki/Lynx_\(web_browser\)](https://en.wikipedia.org/wiki/Lynx_(web_browser))
Beaker Browser (peer-to-peer Web browser) - <https://beakerbrowser.com/>
Nyx browser (keyboard-driven browser) - <https://github.com/atlas-engineer/next>
Jolie (microservices) - <https://www.jolie-lang.org/>
Daphile (headless music server) - <https://www.daphile.com/>
Skywave linux (software defined radio servers) - <https://skywavelinux.com/>
Gotenna (off-grid mobile mesh) - <https://gotenna.com/>
Manyverse (off-grid social networking) - <https://www.manyver.se/faq/what-is-manyverse>
p2p networking - <https://www.gnunet.org/en/> <https://zeronet.io/> <https://freenetproject.org/>
Eternal-september private news server (usenet) - <http://eternal-september.org/>
Aioe.org public news server (usenet) - <https://news.aioe.org/>
What is the Usenet improvement Project? - <http://twovoyagers.com/improve-usenet.org/>
Fediverse (federated servers for web-publishing) - <https://en.wikipedia.org/wiki/Fediverse>
Buzz (swarms robotics) - <https://github.com/buzz-lang/Buzz> && <https://the.swarming.buzz/wiki/doku.php>

Wing (entire cloud as the computer) - <https://github.com/winglang/wing>

OPERATING SYSTEM*

XOD.IO (microcontrollers) - <https://xod.io/>

Elemental Processor SIMulator - <https://wepsim.github.io/>

Mikrocodesimulator MikroSim 2010 (microcode) - http://www.mikrocodesimulator.de/index_eng.php

Katai Struct (binary data structures) - <https://kaitai.io/>

Snowdrop OS (16-Bit Operating System) - <http://sebastianmihai.com/snowdrop/>

Turbo Rascal (design of 8-bit/16-bit games)- <https://lemonspawn.com/turbo-rascal-syntax-error-expected-but-begin/>

NESFab (creating NES games) - <https://pubby.games/nesfab.html>

Tunguska (a ternary computer emulator) - Viktor Lofgren - <http://tunguska.sourceforge.net/>

The Trillium Architecture - Douglas W. Jones - <http://homepage.divms.uiowa.edu/~jones/ternary/trillium.shtml>

Red (full-stack) - <https://www.red-lang.org/p/about.html>

Racket - <https://racket-lang.org/> && Neverlang - <https://cazzola.di.unimi.it/neverlang2.html> (language creation)

Rescatux - <https://www.supergrubdisk.org/rescatux/> && Parted Magic - <https://partedmagic.com/> (OSes for rescue and recovery)

Minix - <https://www.minix3.org/> && 'An Open Letter to Intel' - <https://www.cs.vu.nl/~ast/intel/>

Los Procesadores Intel tienen un Secreto Misterio - <https://www.youtube.com/watch?v=CaLb7waR6eo>

Debian-hurd (debian over Hurd) - <https://www.debian.org/ports/hurd/> https://en.wikipedia.org/wiki/GNU_Hurd

Trisquel (ubuntu over Libre-Linux) - <https://trisquel.info/>

Noulith (attempt to give myself a new Pareto-optimal choice for quick-and-dirty scripts) - <https://github.com/betaveros/noulith>

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